

科目ナンバリング		U-LAS14 20052 LE68									
授業科目名 <英訳>		Introductory Plant Ecology-E2 Introductory Plant Ecology-E2				担当者所属 職名・氏名		農学研究科 准教授 Garry John PILLER			
群	自然科学科目群			分野(分類)		生物学(各論)			使用言語	英語	
旧群	B群	単位数	2単位	週コマ数	1コマ	授業形態	講義 ( 対面授業科目 )				
開講年度・ 開講期	2025・前期		曜時限	水3		配当学年	主として1・2年生		対象学生	理系向	
[授業の概要・目的]											
Plant ecology underpins many scientific disciplines, including ecosystem rehabilitation, conservation and management biology, and research on climate change impacts. This course will introduce students to the principles of plant ecology. The focus will be on the factors that influence plant distribution and abundance: light, water, nutrients, growth patterns, plant and animal interactions, and disturbances. In addition, current ecological issues such as climate change and exotic species invasions will be examined.											
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Upon successful completion of this course students will be able to: <ul style="list-style-type: none"> <li>* Explain the fundamental processes that influence species ' distribution and abundance</li> <li>* Discuss interactions between plants and the environment, as well as with other organisms</li> <li>* Apply ecological principles to environmental issues</li> <li>* Access and critically analyze basic research pertaining to plant ecology</li> </ul>											
[授業計画と内容]											
Course Schedule <ol style="list-style-type: none"> <li>1. Introduction to Plant Ecology</li> <li>2. Light</li> <li>3. Water Relations</li> <li>4. Soils &amp; Nutrition</li> <li>5. Evolutionary Processes</li> <li>6. Population Structure</li> <li>7. Growth &amp; Reproduction</li> <li>8. Community Patterns</li> <li>9. Competition</li> <li>10. Herbivory &amp; Plant-Pathogen Interactions</li> <li>11. Disturbance &amp; Fire</li> <li>12. Succession</li> <li>13. Communities in Landscapes</li> <li>14. Global Change: Humans &amp; Plants</li> <li>15. End of Term Exam</li> <li>16. Feedback</li> </ol>											
[履修要件]											
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## Introductory Plant Ecology-E2(2)

### 【成績評価の方法・観点】

Grading: Pre-class submission of questions related to listening exercise (20%), writing exercises based on assigned pre-class reading materials (30%), in-class group presentation (20%) on a topic in the field of plant ecology, and an end of term exam (30%).

### 【教科書】

使用しない

### 【参考書等】

（参考書）

Handouts will be given out in class, as well as emailed to the students.

### 【授業外学修（予習・復習）等】

Students should read or listen to the required pre-class materials and submit any required assignment before the class, and come to class ready to participate in class activities. Typically, this will entail listening to a short video or podcast (10 min. or less), as well as reading a 2 or 3 page handout and be prepared to write answers to 1 or 2 questions about the reading material in the following class (15 to 20 minutes provided in class).

### 【その他（オフィスアワー等）】

Open door policy during office hours, and anytime by email.

### 【主要授業科目（学部・学科名）】